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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
09/889,916	10/24/2001	Christian Boehnke	HHI-032US	3006
959 7	590 02/13/2004		EXAMINER	
LAHIVE & COCKFIELD, LLP.			LIN, KUANG Y	
28 STATE STREET BOSTON, MA 02109			ART UNIT	PAPER NUMBER
DOSTON, 1817	1 02109		1725	
			DATE MAILED- 02/12/2004	

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)			
Office Action Commons	09/889,916	BOEHNKE, CHRISTIAN			
Office Action Summary	Examiner	Art Unit			
	Kuang Y. Lin	1725			
The MAILING DATE of this communication a Period for Reply	appears on the cover sheet	with the correspondence address			
A SHORTENED STATUTORY PERIOD FOR REI THE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a - If NO period for reply is specified above, the maximum statutory peri - Failure to reply within the set or extended period for reply will, by sta Any reply received by the Office later than three months after the may earned patent term adjustment. See 37 CFR 1.704(b).	N. 1.136(a). In no event, however, may a reply within the statutory minimum of the od will apply and will expire SIX (6) Motute, cause the application to become	a reply be timely filed nirty (30) days will be considered timely. DNTHS from the mailing date of this communication. ABANDONED (35 U.S.C. § 133).			
Status					
1) Responsive to communication(s) filed on 19	November 2003.				
2a) ☐ This action is FINAL . 2b) ☑ This action is non-final.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits					
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims					
4) ☐ Claim(s) 1-10 is/are pending in the application 4a) Of the above claim(s) is/are with definition 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-10 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and	rawn from consideration.				
Application Papers					
9) The specification is objected to by the Exami	ner.	•			
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.					
Applicant may not request that any objection to the		• •			
Replacement drawing sheet(s) including the corn 11) The oath or declaration is objected to by the					
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for forei a) All b) Some * c) None of: 1. Certified copies of the priority docume 2. Certified copies of the priority docume 3. Copies of the certified copies of the priority docume application from the International Bure * See the attached detailed Office action for a li	ents have been received. ents have been received in fiority documents have bee eau (PCT Rule 17.2(a)).	Application No n received in this National Stage			
Attachment(s)					
1) Notice of References Cited (PTO-892)		Summary (PTO-413)			
 Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/0 Paper No(s)/Mail Date 		(s)/Mail Date Informal Patent Application (PTO-152) 			

Art Unit: 1725

1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 1-10 are rejected under 35 U.S.C. 103(a) as being unpatentable over German 1,508,800 or WO 91/1,910 and further in view of Lemelson.

Each of the primary references substantially shows the invention as claimed except the step of reinforcement adding step. However, Lemelson shows that that it is conventional to add reinforcement material into molten metal during a composite making step. It would have been obvious to add reinforcements material into the molten metal of the primary reference if a composite article is designated. With respect to claim 3, it would have been obvious to add reinforcement material into molten magnesium if a magnesium metal matrix composite is designated.

3. Claims 1-10 are also rejected under 35 U.S.C. 103(a) as being unpatentable over Lemelson and further in view of either German 1,508,800 or WO 91/12,910.

Lemelson substantially shows the invention as claimed except the means for dividing the strand into pellets. However, each of the secondary references shows to provide dividing means in a continuous casting apparatus for forming grooves along the casting strand and thus divides the strand along the grooves to obtain pellets. It would have been obvious to provide the dividing means of the secondary references in the continuous casting apparatus of Lemelson if

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pellets are to be obtained from the strand. With respect to claim 3, it would have been obvious to add reinforcement material into molten magnesium if a magnesium metal matrix composite is designated.

- 4. The patents to Thalmann, Yoshimura and Kim et al. are cited to further show the state of the art.
- 5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kuang Y. Lin whose telephone number is 571-272-1179. The examiner can normally be reached on Monday-Friday, 10:00-6:30,.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Thomas X Dunn can be reached on 571-272-1171. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic

Business Center (EBC) at 866-217-9197 (toll-free).

Kuang Y. Lin
Primary Examiner
Art Unit 1725